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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/040,773	12/28/2001	Benn Bollay	10547-0016-999	2128
Hughes Electro	7590 01/16/200 onics Coporation	7	EXAM	IINER
	ents & Licensing	BLOUNT, STEVEN	, STEVEN	
P.O.Box 956 Bidg. R11, Mail Station A109			ART UNIT	PAPER NUMBER
El Sagundo, C			2616	
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MC	PHTMC	01/16/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	10/040,773	BOLLAY ET AL.	
Office Action Summary	Examiner	Art Unit	
	Steven Blount	2616	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR REPL	VIC SET TO EVDIDE 2 M	ONTH(S) OD THIDTY (30) DAY	/9
WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 136(a). In no event, however, may a rewill apply and will expire SIX (6) MON e, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 16 C	October 2006.		
2a) This action is FINAL . 2b) ⊠ This	s action is non-final.		
3) Since this application is in condition for allowed	ance except for formal matt	ers, prosecution as to the merits	s is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1 - 23</u> is/are pending in the application	on. (Prosecution Rea	yened)	
4a) Of the above claim(s) is/are withdra		• /	
5)⊠ Claim(s) <u>14 - 20</u> is/are allowed.			
6)⊠ Claim(s) <u>1-13, 21-23</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers			
9) The specification is objected to by the Examina	er.		
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyar	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct			
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached	J Office Action or form PTO-152	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority documen	its have been received.		
2. Certified copies of the priority documen		pplication No	
3. Copies of the certified copies of the price	ority documents have been	received in this National Stage	
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	t of the certified copies not	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of I	nformal Patent Application	
Paper No(s)/Mail Date	6) Other:	_ ·	

Application/Control Number: 10/040,773

Art Unit: 2616

DETAILED ACTION

A. Prosecution is reopened in view of the new grounds of rejection below.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1 13, and 21 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 6,233,618 to Shannon in view of either one of the following patents, in the alternative: U.S. patent 7,065,082 to Ganesh et al or U.S patent 7,031,297 to Shabtay et al.

With regard to claim 1, Shannon teaches a content routing filter: see Shannon generally and including col 12 line 24; a request for content: see Shannon generally and including col 12 line 59; a first destination address: see Shannon generally and including col 10 line 25; and a list of IP addresses to be filtered: see Shannon generally and col 6 line 13 and table 3.

Shannon does not however teach routing to an output port based on the IP address and list (ie, sending it on or "black hoeing" it if it is to be discarded).

The use of a discard port is taught in detailed description 41 of Shabtay, and port use is discussed throughout Shabtay. Discard ports are taught in Ganesh et al in detailed description par 56 and usage of ports is generally discussed throughout the patent.

Application/Control Number: 10/040,773

Art Unit: 2616

It would have been obvious to one of ordinary skill in the art at the time of the invention to have provided Shannon et al with a means for routing to an output port based on the first IP destination address and list, in light of the teachings of either Ganesh et al or Shabtay in the alternative, in order to provide a means for effectively managing the packet data and distributing it appropriately.

With regard to claim 2, see discussion of "blackholing" above and Ganesh and Shabatay generally.

With regard to claim 3, see table 3 and Shannon generally.

With regard to claim 4, see col 13 line 43 and Shannon generally.

With regard to claims 5 – 6, note a gateway is taught in col 13 lines 24+ in Shannon and that BGP is an obvious type of said gateway which would be desirable to use in order to effectuate a fast routing time.

With regard to claim 7, sending the packet to an additional router would be obvious in view of the fact that it is performed once before such that multiple stages of filtering may be performed and greater granularity achieved.

With regard to claim 8, this would be obvious in view of the use of SNMP (as discussed in col 9 lines 35+ of Shannon) and its well known management/feed back functions.

With regard to claims 9 – 13, see table 3 and Shannon generally.

With regard to claims 21 - 22, the operations of all 3 cited references occur under the operation of a CPU (see also detailed description of Ganesh, par 82 where a cpu is recited), see discussion of ports above, and note discussion of operating system in

Shannon, basic summary of text par 12 and further note these are all well known network elements discussed in the above references generally.

With regard to claim 23, see brief summary of text paragraph 15 in Shannon for discussion of software implementation and Shannon generally. Note that software is also discussed in the other cited references, and it would be obvious to implement the invention under software control in order to insure its repeatability.

- 3. Claims 14 20 are allowed.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Blount whose telephone number is 703-305-0319. The examiner can normally be reached on M-F 9:00 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Doris To, can be reached on 571 - 272 - 7629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SB 1/8/06

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600